Page 1

, June-04-12 1:27:32 PM

Item ID:

D350-636-013

Accept

\*N900040100\*

Setup Start

Revision ID:

**Start Date:** 

Item Name: Skidtube LH

> 04/06/2012 Start Qty: 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan: MLJ Date: 12/06/64 Tooling:

Date:

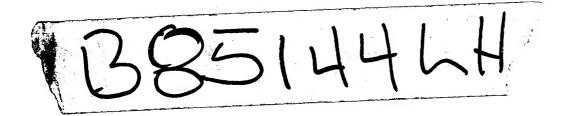
SPC (Y/N):

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Run

Operation Description	1	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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	Description Revision Nbr  F C I  DOCUMENT	Description  Revision Nbr  F C I  DOCUMENT CONTROL  Memo	Description Revision Nbr  F C I  DOCUMENT CONTROL  Memo  Run Hours  0.00  0.00  0.00	Description Revision Nbr  F C I  DOCUMENT CONTROL  Run Hours  Run Hours	Description Revision Nbr  F C I  DOCUMENT CONTROL  Memo  Run Hours  0.00  O.00  O.00	Description Run Hours Code  Revision Nbr  F C I  DOCUMENT CONTROL  Memo  Run Hours  O.00  O.00	Revision Nbr  F C I  DOCUMENT CONTROL  Memo  Run Hours  Code Qty  O.00  O.00	Description Run Hours Code Qty Qty  Revision Nbr  F C I  DOCUMENT CONTROL  Memo  O.00  O.0	Description Run Hours Code Qty Qty Number  Revision Nbr  F C I  DOCUMENT CONTROL  Memo  Run Hours  Code Qty Qty Number  NUC5 17  A  A  A



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W/O:			WO	RK ORDER CHANGES	3				
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Page 2

Item ID: Revision ID: Item Name:	D350-636-01 Skidtube LH	13		Accept	*N900	040	100	)*	Setup	St
Start Date: Required Date: Reference:	04/06/2012 18/06/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item   Customer:	ID:				
Approvals:		n:	Date:	Tooling: SPC (Y/N):		ate:			Run	St
Sequence ID/ Work Center II	D	Operation Description Skidtubes		Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty	
Skidtubes Skidtubes		2- Deburr AFT end p 3- Drill pi deburr.  4- Locate fitting  5- Drill on 6- Drill pi Jig DT815	PERSONAL SECOND SIDE ***	bolt holes using DT8983. Open bolt holes and drill pilot he DT9616. Ensure proper poster 4 (D2750-3 details) to only DT886. B for second	pen to 0.500", noles for blade positioning. Drill using drill d side (detail B)	12/06/a		E 12		
		8- Open up	p holes for SECTION AW-, tion holes to 0.500" (total of s for ground handling and d	of 4 holes per side) as per of	dwg D2750.		,	l		1

9-Drill pilot holes for wearplates as per Dwg D2750 using DT8108 open to

10-Open up holes of Detail A to 0.297" (total of 2 holes per side)

0.297".

Setup Start

Stop

Reject

Insp.

Number Stamp

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Dart Ae	rospace	e Ltd					299				
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QC5- Inspect part completeness to step on W/O

Memo

130

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Quality Control

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W/O:				RK ORDER CHANGES		-			. 1 . 1
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Quality Control

Item ID: D350-636-013 Accept \*N900040100\* Setup Start **Revision ID:** Skidtube LH Item Name: Start Oty: 1.00 **Start Date:** 04/06/2012 Cust Item ID: **Required Date:** 18/06/2012 Req'd Qty: 1.00 Customer: Reference: Start Run Process Plan: Date: Approvals: Tooling: Date: SPC (Y/N): Date: Date: Sequence ID/ Operation Set Up/ Reject Tool ID Tool # Plan Accept Reject Insp. Work Center ID Description **Q**ty **Run Hours** Code **Qty** Number Stamp 140 Chemical Conversion Coat per QSI005 4.1 0.00 \*140\* HandFinish 0.00 Memo Hand Finishing 150 QC7-Inspect Chemical Conversion Coat 0.00 \*150\* QC 0.00Memo

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Work Order 1	ID 8	35144
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Page 5

Insp.

Stamp

June-04-12 1:27:32 PM Item ID: D350-636-013 Accept \*N900040100\* Start Setup **Revision ID:** Skidtube LH Item Name: Start Date: 04/06/2012 Start Qty: 1.00 Cust Item ID: **Required Date:** 18/06/2012 Reg'd Oty: 1.00 **Customer:** Reference: Run Start Process Plan: Approvals: Date: Tooling: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Work Center ID Description **Run Hours** Code Qty Qty Number 160 0.00 Skidtubes \*160\* Skidtubes 0.00 Memo Skidtubes 1-Open up holes section AW-AW 0.500" (4 per side) as per dwg D2750 3-Open up holes of Detail T and ground handling to 0.625" (total of 8 holes per side Detail AV-AV) as per dwg D2750. 4-Chamfer holes of section AW-AW, AV-AV, T and ground handling. (welding instructions on sheet 10) 5-Deburr and blow out all chips from inside of tube. Prepare tube for welding, remove alodine as required. 6-Bond web D2739 in place as per QSI 015 DC 12/07/03 A/R Sikaflex-291 batch: 12/409 exp. date: 13-4-12 7- Weld spacers D3490-1, D3490-5 and D2743 as per dwg D2750 & QSI004 (welding instructions on sheet 10) A/R Aluminum Rod batch: M122110 8-Grind welds flush as per Dwg D2750 9-Spot face ground handling holes (total of 4 places per side) as per dwg D2750 & 12/07/06

10-Deburr holes

Dart Aerospace Ltd	1
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W/O:	1		W	ORK ORDER CHANG	GES				• •
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Work Order ID 85144

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Page 6

June-04-12 1:27:32 PM

**Required Date:** 18/06/2012

Item ID:

D350-636-013

Accept

\*N900040100\*

Setup Start \*

Item Name: **Start Date:** 

**Revision ID:** 

Skidtube LH 04/06/2012

Start Qty: 1.00 **Req'd Qty:** 1.00

Operation

\*1\* \*1\*

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

Date: Date:

Tooling:

Set Up/

Date:

Tool ID

Run

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID -170

Description QC10- Inspect visual per QSI004- ground welds

**Run Hours** 

Tool # Plan Code

Accept Qty

Reject Reject Qty Number Stamp

Insp.

\*170\*

OC

0.00

0.00 6 12/09/09

Quality Control

180

QC5- Inspect part completeness to step on W/O

0.00

0.00

\*180\*

QC

Memo

Memo

Quality Control

190

Pressure Wash per QSI005 4.3

0.00

\*190\*

HandFinish

Memo

0.00

Hand Finishing

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch.

1 No 12-79

# **Dart Aerospace Ltd**

W/O:	ì		W	/ORK ORDER CHANGI	ES			
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0.00

1-Install inserts as per dwg D2750

HandFinish

Hand Finishing

**3** 

Dart Aerospace Ltd
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W/O:		WORK ORDER CHANGES											
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
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Item ID: Revision ID: Item Name:	D350-636-0	13		Accept	*N900	)040	1100	<b>)*</b> s	Setup Star	1 7	S1* S2*
Start Date: Required Date: Reference:	04/06/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1 <sup>:</sup>		Cust Item Customer:						
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Sequence ID/ Work Center II 230 *230* HandFinish	D	Operation Description HandFinishing		Set Up/ Run Hours 0.00	Tool ID	Tool #	Code	Accept Qty	Reject Qty	Reject Number	
Hand Finishing		2-Spray insi 3-Install bla per dwg D2 SIKA FLEX BATCH: EXP DATE	750 (241 (A) (7) (30 (-) (4) (3	, 110					(		

240

QC5- Inspect part completeness to step on W/O

0.00

\_5-Coat all exposed fasteners with "LPS Procyon" batch: 111159

\*240\*

Memo

0.00 5(7/07/1)

Quality Control

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270 0.00

\*270\* Packaging
Packaging
Memo 0.00

Package as per PPP D350-636-013

Quality Control

Packaging

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QC21- Final Inspection - Work Order Release

Memo

280

QC

\*280\*

Quality Control

Page 10

Insp.

MUJ 12107/13 MUJ 12107/13

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## · Picklist Print

June-04-12 1:27:36 PM

\* Work Order ID: 85144

Parent Item:

D350-636-013

Parent Item Name: Skidtube LH

\*85144\*

\*D350-636-013\*

**Start Date:** 04/06/2012

Required Date: 18/06/2012

Start Qty: 1.00

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Required Qty: 1.00

Comments:

IPP Rev:H02.09.25Rearranged procedure steps KJ

IPP rev I 06.03.30 Per rev. D dwg

EC IPP Rev:J 07-07-28 Added SS Wearplates(Rev E) JLM Verified By:EC IPP Rev:K 08-09-23 revF as per dwg DD verified by:ec IPP Rev:L

10.06.22 revise seq110 DD verf:EC

per IIN revH DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2600-3-BENT		Manufactured	No			110	Each	29.0000	1	1			
*D2600-3-	RENT*								**		- BE	12/06/	25

IPP Rev:M 10.10.01 as

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Ext	rus	ion	В	ent									

		<b>Location</b>	Lo	e Qty	Loc Code			
		LG		29				
		66875		7				
		73253		i				
		75021		1				
		75022		1				
		75023		1				
		81330		4				
		83305		1				
		83442		13				
Manufactured	No		110	Each	127.0000	2	2	V

D3493-1

Loc Code Location Loc Qty ST050 127 77573 I 82023 26 83097 100

SP3 10 12/07/11

Page 1

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## . Picklist Print

June-04-12 1:27:36 PM

Work Order ID: 85144

Parent Item:

D350-636-013

Parent Item Name: Skidtube LH

\*85144\*
\*D350-636-013\*

Start Date: 04/06/2012

**Required Date:** 18/06/2012

Start Qty: 1.00

Required Qty: 1.00

<sup>D2739</sup>
\*D2739\*

\*D2744\*

350 I Beam

D2744

Cap

D3490-1

160 Each

13.0000 \*\*

De 12/07/03

 
 Location LG
 R 8 5 9 8 6
 Loc Qty
 Loc Code

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 35,0000

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Manufactured

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BE 12/06/25

No

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 LG002
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 Each

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Loc Code

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BB5419 ×4

\*D3490-1\*
Cross Bolt Spacer

Location Loc Qty Loc Code LG 2 2 81976 LG001 43 62450 2 74875 77042 3 83269 34

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June-04-12 1:27:36 PM

Shop Packet Print

Page 2

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# **Picklist Print**

June-04-12 1:27:36 PM

Work Order ID: 85144

Parent Item:

D350-636-013

Parent Item Name: Skidtube LH

\*85144\* \*D350-636-013\*

**Start Date:** 04/06/2012

**Required Date:** 18/06/2012

Required Qty: 1.00

D3490-5

·Cross Bolt Spacer

Manufactured

No

160

Each

57.0000

\*\*

Start Qty: 1.00

BE 12/07/05

Location Loc Qty Loc Code LG 13 13 78958 LG001 44 83373 44 220 Each 296.0000 Manufactured

D2743

\*D2743\* Crossbolt Spacer

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BE 12/07/05

Location	Loc Qty	Loc Code	
LG	222		
81965	55		
83262	167		_8
LG001	74		
67766	4		
68251	3		
73403	64		
74445	1		
79517	2		

# Dart Aerospace Ltd W/O: WORK ORDER CHANGES DATE STEP PROCEDURE CHANGE By Date Qty Approval Chief Eng / Prod Mgr QC Inspector Approval QC Inspector

Part No:		PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed	l:	Date:

WORK ORDER NON-CONFORMANCE (NCR)

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June-04-12 1:27:36 PM									Page 5
Work Order ID: 85144		*85	144*				-		
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Parent Item Name: Skidtube LH				, , , ,			art Date: 0 tart Qty: 1		Required Date: 18/06/2012 Required Qty: 1.00
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*AN3C6A*							**	LL	12/07/10
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			119449		21				
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			121682		200			XU	
AN6C44A	Purchased	No		230	Each	86.0000	4	4	
*AN6C44A* ?							**	J.J.	12/03/10

**Location** Loc Qty Loc Code FG 2 103964 ST343 121013 M1214D 121167 13 121440 121689

# **Dart Aerospace Ltd**

W/O:			W	ORK ORDER CHANG	GES					٠ .
DATE	STEP	PRO	CEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
					:					
·										
Part No	•	PAR #:	Fault Ca	tegory:	_ NCR	: Yes N	lo DQA	\:	Date: _	
	R	esolution:	Disposit	ion:	QA:	N/C Clo	sed:		Date: _	
NCR:		<b>\</b>	WORK OR	DER NON-CONFORM	ANCE	(NCR)				
DATE	STEP	Description of NC	Initial	Corrective Action Sec Action Description	tion B	Sign &	Verific		Approval	Approval
		Section A	Chief Eng	Chief Eng		Date	Section	on C	Chief Eng	QC Inspector
- BH-74 - 1	,	,								

June-04-12 1:27:36 PM

· Work Order ID: 85144

Parent Item:

D350-636-013

Parent Item Name: Skidtube LH

\*85144\* \*D350-636-013\*

**Start Date:** 04/06/2012

**Required Date:** 18/06/2012

Start Qty: 1.00

Required Qty: 1.00

AN8C35A

Purchased

No

230

Each

68.0000

M 1207/10

\*AN8C35A\*

<b>Location</b>	<u>Lo</u>	c Qty	Loc Code			
FP002		67				_
115960		1				
118286		16				
121275		50			<u> </u>	_
ST346		1				
114442		0				_
115188		0				_
115960		1				_
	230	Each	0.0000	38	38	

AN960C10L

Purchased

No

1/1122063

washer D2745

Manufactured No 230

Each 122.0000

(v38) M 12/02/10 8 M 12/02/10

\*D2745\*

\*AN960C101 \* 4

Bushing

Location	Loc Qty	Loc Code	
FP	6	1385416	y &
79518	6	10 0 0 1 1 0	
FP001	116		
69529	1		
76142	1		
83260	114		

<b>Dart Aerospace Ltd</b>
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W/O:		WORK ORDER CHANGES									
DATE	STEP	PRO	CEDURE CHANGE By Date Qty				e Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
								. 100 Mg.			
						:					
Part No	:	PAR #:	Fault Ca	tegory:	_ NCR: Yes	s No	DQA:	_ Date: _			
Resolution:			Disposit	ion:	_ QA: N/C	VC Closed: Date:					
NCR:		V	VORK OR	DER NON-CONFORM	ANCE (NC	R)					
DATE	STEP	Description of NC	Corrective Action Section Initial Action Description			Sign & Verification		Approval	Approval		
	,	Section A	Chief Eng	Action Description Chief Eng	Dat		Section C	Chief Eng	QC Inspector		
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L						<u> </u>			1		

June-04-12 1:27:36 PM

• Work Order ID: 85144

Parent Item:

D350-636-013

Parent Item Name: Skidtube LH

\*85144\* \*D350-636-013\*

**Start Date:** 04/06/2012

**Required Date: 18/06/2012** 

Start Qty: 1.00

Required Qty: 1.00

D3488-041

Blade Fitting Assembly, LH

Manufactured No

Location

FP002

230

Each

9.0000

Loc Code

1358U

\*\*

\*\*

H 12/07/10

D3492-1

\*D3492-1\*

Plug

Manufactured

No

82271

61689

230

Loc Qty

8 Each

257.0000

8

Location Loc Qty Loc Code FP002 242 69531 8 74444 2 76235 4 83259 228 FP-A 15 83098 15 161.0000 8

\*D3492-5\*

Plug

D3492-5

No

Manufactured

230 Each

\*\*

Al 11/07/10

Location Loc Qty Loc Code fpa 161 83100 60 83530 101

# **Dart Aerospace Ltd**

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W/O:			WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No	•	PAR #:	Fault Cat	egory:	NCR: Yes	No DQ	<b>\</b> :	Date: _		
Resolution:			Dispositi	_ QA: N/C Cl	QA: N/C Closed: Date:					
NCR:		,	WORK ORI	DER NON-CONFORMA	NCE (NCR	()				
DATE	STEP	STEP Description of NC Section A	Corrective Action Section			Verific		ion Approval	Approval	
DAIL			Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section	on C	Chief Eng	QC Inspector	
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June-04-12 1:27:36 PM

• Work Order ID: 85144

Parent Item:

D350-636-013

Parent Item Name: Skidtube LH

\*85144\* \*D350-636-013\*

Start Date: 04/06/2012

**Required Date: 18/06/2012** 

Start Qty: 1.00

Required Qty: 1.00

12/07/10

D3535-25

\*D3535-25\*

Wearshoe

Manufactured

Manufactured

Manufactured

No

No

230

Each

34.0000

\*\*

Al volozlo

<b>Location</b>	<u>Lo</u>	<u>c Qty</u>	Loc Code		
FP001		34			
62233		1			
81357		1			
82156		2			
83387		17			
83899		13			
	230	Each	28.0000	1	1

D3536-25

\*D3536-25\* Gasket

D3537-1

Location Loc Qty Loc Code FP 28 83391

230

12 16 Each

19

3

31

\*\*

\*\*

Ml 12/07/10 \_

*D3537-1	*
Wearnad	

Location	Loc Qty
FG	10
79833	10
FP002	73
69817	5
81360	14
81362	19
83254	1

83900

83255

84091

1383256

83.0000

Loc Code

JUL

Dart Aerospace Lt	d
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W/O:			V	VORK ORDER CHANGE	ES			* .
DATE	STEP	PROC	EDURE CH	IANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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		•						
Part No		PAR #:	_ Fault Ca	tegory:	NCR: Yes	No DQA:	Date: _	······································
Resolution:								
NCR:	, .	W	ORK OR	DER NON-CONFORMA	NCE (NCR	)		
DATE	STEP	Description of NC	Corrective Action Section		Veriticati		1 Approval	Approval
	J.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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w Work Order ID: 85144

Parent Item:

D350-636-013

Parent Item Name:

Skidtube LH

\*85144\* \*D350-636-013\*

81874

83588

68062

75548

Location

FG

ST072

Location

Location

FP002

ST060

Start Date: 04/06/2012

**Required Date: 18/06/2012** 

Start Qty: 1.00

Required Qty: 1.00

D3631-1

\*D3631-1\*

Washer

Manufactured

Purchased

230

Each

Loc Qty

332

330

15

2

13

Loc Oty

774

774

Each

2

347.0000

Loc Code

107/10

D3672-13 Phenolic Washer

D3791-1

\*D3791-1\*

Wearplate

D3793-1

\*D3793-1\* Wearshoe

No

Manufactured No

54363

230

230

Each

17.0000

Loc Code

Loc Code

774.0000

\*\*

\*\*

12/07/10

CUFFERT IN CHESCH and up NA U 1207-13

Manufactured No

62239 83392

15 230 Each

Loc Qty

17

2

28.0000

\*\*

Location Loc Qty Loc Code FP001 28 82171 2 83393 13 83903 13

# **Dart Aerospace Ltd**

N/O:		WORK ORDER CHANGES									
DATE	STEP	PRO	OCEDURE CH	ANGE	ı	By Date Qty			Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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			-								
Part No	:	PAR #:	Fault Cat	egory:	NCR:	Yes I	No DQ	A:	_ Date: _		
Resolution:		solution:	Dispositi	on:	QA: N	QA: N/C Closed:			Date: _		
NCR:			WORK ORE	ER NON-CONFOR	MANCE (	NCR					
DATE	STEP	Description of NC Section A			Section B	Sign &		cation	Approval	Approval	
			Initial Chief Eng	Action Description Chief Eng	on ,	Date	Secti	Section C	Chief Eng	QC Inspector	
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Work Order ID: 85144

Parent Item:

D350-636-013

Parent Item Name: Skidtube LH

\*85144\* \*D350-636-013\*

83394

83901

Location

Location

FP001

Start Date: 04/06/2012

**Required Date:** 18/06/2012

Start Qty: 1.00

Required Qty: 1.00

D3793-3

\*D3793-3\* \*

Wearshoe

Manufactured

No

230

Each

28.0000

Loc Code

1382166

181 12107hu

D3794-1

\*D3794-1\*

Gasket

Manufactured

Manufactured

No

No

230

12 Each

16

Loc Qty

26.0000

Loc Code

\*\*

\*\*

M 1102/10

D3794-3

Gasket

FP 82167 FP002 20 83395

20 230 Each

6

Loc Oty

23.0000

Location Loc Qty FP 21 83396 21 FP002 2 74530 2

Loc Code

W/O:	· · · · · · · · · · · · · · · · · · ·	WORK ORDER CHANGES														
DATE	STEP	PRO	CEDURE CH	ANGE	E	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
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Part No	:	PAR #:	Fault Ca	legory:	_ NCR:	NCR: Yes No DQA: Date: _										
	R	esolution:	ution: Disposition: QA: N/C Closed: Date:													
NCR:		V	WORK ORDER NON-CONFORMANCE (NCR)													
DATE	STEP	Description of NC Section A	initial Chief Eng	Corrective Action Sect Action Description Chief Eng	ction B Sign & Date		Verification Section C	Approval Chief Eng	Approval QC Inspector							
			Officer Ering	Ones Eng		Date										
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**Shop Packet Print** 

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N/O:		WORK ORDER CHANGES													
DATE	STEP	PRO	CEDURE CH		By	Date	Qty	Approval Chief Eng /	Approval						
							<b></b>	Prod Mgr	QC Inspector						
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Part No	:	PAR #:	Fault Cat	egory:	NCR: Yes No DQA: Date: _										
		esolution:						Date:							
NCR:		V	VORK ORI	DER NON-CONFORMA	ANCE (NCF	R)		· · · · · · · · · · · · · · · · · · ·							
DATE	STEP Description of NC			Corrective Action Section		Verific	ation	Approval	Approval						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	k Section		Chief Eng	QC Inspector						
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Work Order ID: 85144		*A	5144*			-	· — · · · - · · · · · · · · · · · · · ·	
Parent Item: D350-636-013 Parent Item Name: Skidtube LH			)350-636-0	)13*		Start Date Start Qty	: 04/06/2012 : 1.00	Required Date: 18/06/2012 Required Qty: 1.00
*NAS1515H3L *NAS1515H3L * WASHER	Purchased	No		230	Each	146.0000 <b>**</b>	4 JUL_	_nloghd
WASHER			<b>Location</b>	Loc	<u> Qty</u>	Loc Code		
			FG		40			_
			102472		40			_
			ST277		106			_
			118686		3			_
			119438		1			_
			120360		11			_
			121243		2			_
NAS1611-005	Purchased	No	121556	230	89 Each	180.0000 8	8 8	_
*NAS1611-005*	ruichased	110		230	Eden	**	H	12/07/10
			Location	Loc	: Oty	Loc Code		
			FP001		180			_
			106099		18			_
			114220		78		3 x	_
			119438		44			

121415

W/O:			W	ORK ORDER CHANG	ES				• • •
DATE	STEP	PRO	CEDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Ca	tegory:	_ NCR: Ye	s No De	QA:	Date: _	
	Res	solution:	Disposit	ion:	_ QA: N/C	Closed: _		Date: _	
NCR:		V	VORK OR	DER NON-CONFORM	ANCE (NO	CR)			
DATE	STEP	Description of NC	Initial	Corrective Action Sect Action Description	ion B		fication	Approval Chief Eng	Approval
		Section A	Chief Eng	Chief Eng	Da		ction C	Cnier Eng	QC Inspector
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• Picklist Print June-04-12 1:27:36 PM									Page 13
• Work Order ID: 85144  Parent Item: D350-636-013  Parent Item Name: Skidtube LH		*8514 *D35	14* 0-636-0	)13*				04/06/2012	Required Date: 18/06/2012
N. 01611 010		.,		•••			tart Qty:		Required Qty: 1.00
*NAS1611-010 *NAS1611-010* o-RING	Purchased	No		230	Each	188.0000	8 <b>**</b>	8	12/04/4
AN8C21A  *AN8C21A*  BOLT	Purchased	<u>Loc</u> FP0	ation 01 110915 117460 118077 118612 119438 121259 121415 121584 121723	<u>Lo</u> 250	188 14 8 1 3 47 2 4 59 50 Each	<u>Loc Code</u> 57.0000	2 **		20 EQ
		ST3	ation 43 118758 121167 121275		57 3 4 50	Loc Code		121275	
D274i  *D2741*  Blade, 350 Skidtube	Manufactured	No		250	Each	20.0000	**	1 V	JB 12/67/
		<u>Loc</u> ST ST4	<u>ation</u> 66 71856 79516	<u>Lo</u>	-10 30 1	Loc Code			
June-04-12 1:27:36 PM			Shop I	Packet Print					Page 13

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W/O:			WO	RK ORDER CHANG	ES				<del> </del>	
DATE	STEP	PRO	OCEDURE CHAN	IGE	В	y	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Categ	ory:	NCR:	es N	lo <b>DQ</b>	A:	Date: _	
Resolution		esolution:	Disposition	:	_ QA: N/	C Clos	sed:		Date: _	
NCR:			WORK ORDER NON-CONFOR							
DATE	STEP	Description of NC		Corrective Action Section			Verific	cation	Approval	Approval
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• Work Order ID: 85144

Parent Item:

D350-636-013

Parent Item Name: Skidtube LH

\*85144\* \*D350-636-013\*

**Start Date:** 04/06/2012

**Required Date: 18/06/2012** 

Start Qty: 1.00

\*\*

Required Qty: 1.00

JB.

MS21083C8

NAS1149D0863J

Purchased

Purchased

No

No

250

Each

81.0000

2

\*MS21083C8\*

<u>Location</u>	1	Loc	<u>Oty</u>	Loc Code			
304			75				
	121185		29				
	121349		46			121349	
FP002			1			<u> </u>	
	115884		l				
ST303			4				
	115884		0				
	118077		1				
	119309		2				
	119638		1				
ST304			1				
	121524		1				
		250	Each	251.0000	2	2 L	
					**		12/07/11

\*NAS1149D0863.I\*

Loc Code Location Loc Qty ST298 251 118078 34

119307 17 120308 100 121556 100

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W/O:			W	ORK ORDER CHANG	ES				• •	
DATE	STEP	PRO	OCEDURE CHA	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
					NCR: Yes No DQA: Date:					
Resolution		esolution:	Disposition	on:	_ QA: N/C	Closed:		Date: _		
NCR:			WORK ORD	PER NON-CONFORMA	ANCE (NC	R)				
DATE	STEP	Description of NC	Initial	Corrective Action Section	ion B Sign		cation	Approval	Approval	
		Section A	Chief Eng	Action Description Chief Eng	Dat		ion C	Chief Eng	QC inspector	
									5	
	,									

•	QTY -041	QTY -042	QTY -043	QTY -044	PART NUMBER	DESCRIPTION
	X				D2750-041	350 SKIDTUBE ASSEMBLY, LH
		Х			D2750-042	350 SKIDTUBE ASSEMBLY RH
			Х		D2750-043	350 SKIDTUBE ASSEMBLY, LH
				X	D2750-044	350 SKIDTUBE ASSEMBLY RH
	1	1	1	1	D2739	WEB
	8	8	8	8	D2743	SPACER
	1	1	1	1	D2744	CAP
	8	8	8	8	D2745	BUSHING
	1				D2750-1	SKIDTUBE WELDMENT, LH
		1			D2750-2	SKIDTUBE WELDMENT RH
			1		D2750-3	SKIDTUBE WELDMENT LH
				1	D2750-4	SKIDTUBE WELDMENT, RH
	1		1		D3488-041	BLADE FITTING, LH
		. 1		1	D3488-042	BLADE FITTING, RH
	4	4	4	4	D3490-1	SPACER
	4	4			D3490-3	SPACER
			4	4	D3490-5	SPACER
	8	8	8	8	D3492-041	PLUG ASSEMBLY
	8	8		L	D3492-043	PLUG ASSEMBLY
			8	8	D3492-045	PLUG ASSEMBLY
	1	1	1	1	D3535-25	WEARSHOE
_	11	1	11	1	D3536-25	GASKET
Æ	3	3	3	3	D3537-1	WEARPAD
_	8	8	- 8	8	D3631-1	WASHER
11	_1_	1	1	1	D3791-1	WEARPLATE
! !	1	1	1	1	D3793-1	WEARSHOE
$\triangle$	1	1	1	1	D3793-3	WEARSHOE
Æ j	11	1	_1_	1	D3794-1	GASKET
L	1	1	1	1	D3794-3	GASKET
_						
<u>A</u> -	38	38	38	38	ALS4-1032-225	INSERT (OR ALS7-1032-225, AKS4-1032-225, AELS-1032-225)
_ L[	34	34	34	34	AN3C5A	BOLT
[	4	4	4	4	AN3C6A	BOLT
[	4	4	4	4	AN6C44A	BOLT
Į	1	1	1	1	AN8C35A	BOLT
A(	38	38	38	38	AN960C10L	WASHER
Æ	1	1	1	1	AN960C816L	WASHER
_ [	4	4	4	4	MS21043-6	NUT
[	1	1	1	1	MS21083C8	NUT
[	4	4	4	4	NAS1515H3L	WASHER

SHOP COPY RETURN TO **ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER MLJ NO. 851 47 06 04

C

INCORPORATE DSI 9413.
OTY (3) D3537-1 WAS OTY (5) (ZN C8-1),
D379-1-43 REPLACES D3535-13-35 (ZN C8-1),
D379-1-43 REPLACES D3535-13-35 (ZN B8-1),
D379-1-43 REPLACES D3536-13-35 (ZN B8-1),
ADD D379-1-(ZN C8-1),
WEARSHOE HÖLES UNDER FWDJAFT SADDLE REMOVED
(8 FL), WEARSHOE HARDWARE DY UDATED (ZN B8-1);
D3488-041-042 HARDWARE UPDATED (ZN C1-8, 9, 10, 11)
ADD NOTE 12 AND 13 (ZN A6-1),
REASON REF. NCR 08-043 08 07 16 PH CHANGE TO STAINLESS STEEL WEARPLATES, ADD RUBBER GASKETS, CHANGE INSERTS, ADD D3631-1; REMOVE QTY (38) NASTS15413, REMOVE QTY (10) NASTS1548L, REMOVE D2741, QTY (2) AN960C816, REMOVE QTY (2) MS21083C8 CB 07 05 17 ADD HOLES AND SPACERS FOR APICAL FLOATS, INCORPORATE DEO 9133/9157 06 01 05 С ADD D2750-3/D2750-4, INCORPORATE D2738 AND D2740 98.11.18 В CHANGE MS24694-S293 TO AN8-16A 98.09.01 NEW ISSUE Α D\$ 98.04 16

REV DESCRIPTION BY DATE DESIGN DART AEROSPACE USA, INC. DRAWN PORT HADLOCK, WA DRAWING NO CHECKED REV F D2750 MFG. APPR. SHEET 1 OF 11 APPROVED TITLE SCALE 350 SKIDTUBE ASSEMBLY DE APPR NTS DATE 08.07.16

D

С

В

MATERIAL: MAKE D2750-1/-2/-3/-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).

7. ACID ETCH, ALONDE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB. POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3 BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).

TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED UNITS: INCHES UNLESS OTHERWISE NOTED BREAK SHARP EDGES: N/A

IDENTIFICATION: N/A WEIGHT: D2750-041/-042/-043/-044 = 26.5 LBS

WELD PER DART 031 004

INSTALL ALSA-1032-225 INSERTS AFTER FINISH AS INDICATED. DRILL 'F' SIZE HOLES (Ø0.297) FOR WEARSHOE INSERTS

FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:

MINIMUM YIELD TENSILE STRENGTH = 35 KSI

MINIMUM ULTIMATE TENSILE STRENGTH = 38 KSI

SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS.

COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS-3" AFTER FINISH AND ASSEMBLY, CLEAN EXCESS OFF

POWDER COATING WITH MEK DEGREASER. SPACER AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL ASPACER AND PLUG INSTALLED SAME AS SECTION AP-AP EXCEPT HORIZONTAL

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THE COCAMENT IS FRIMATE AND CONFERENTIAL AND IS SUPPLIED OF THE EXPRESS CONCIDENT THAT IT IS
NOT TO BE USED FOR ANY PURPOSE OF COMES OF COMESTICATED TO ANY OTHER PERSON WITHOUT
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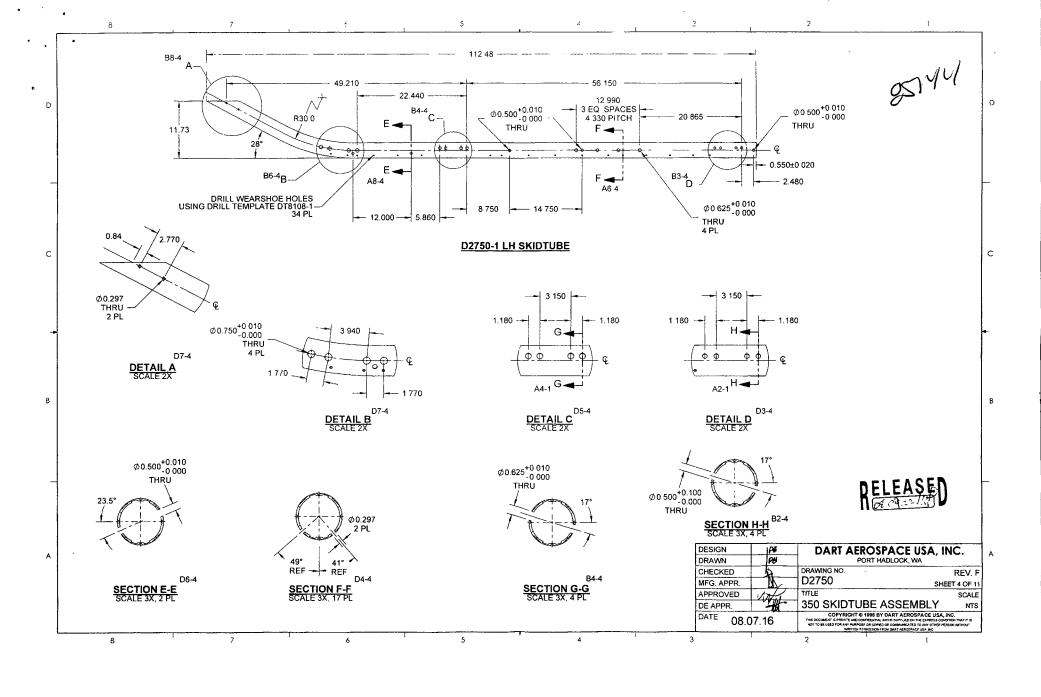
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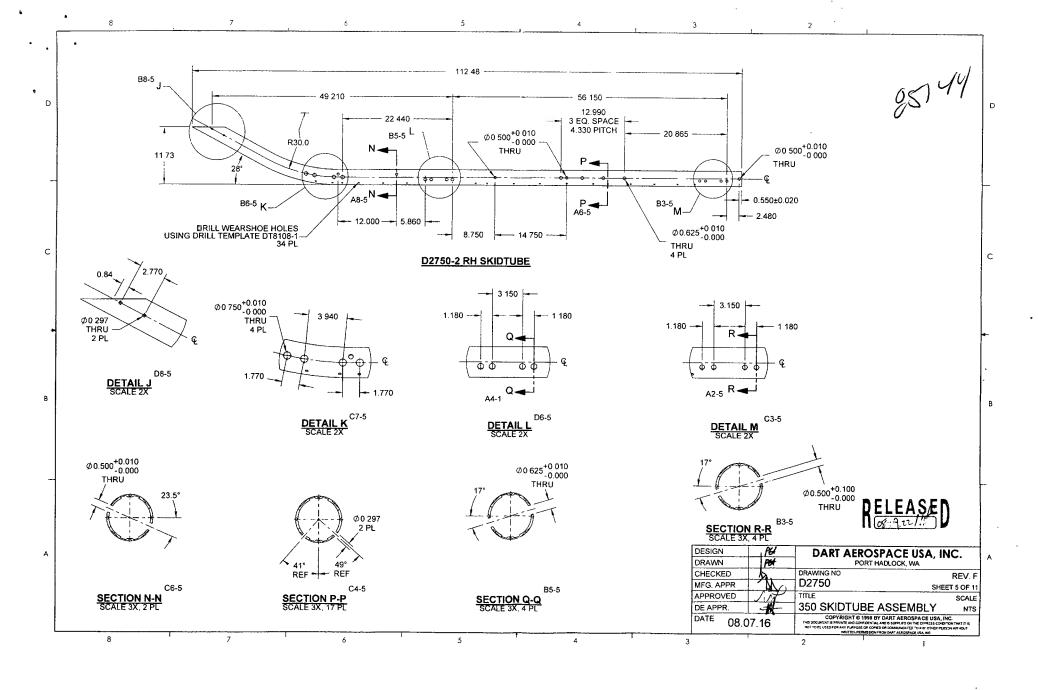
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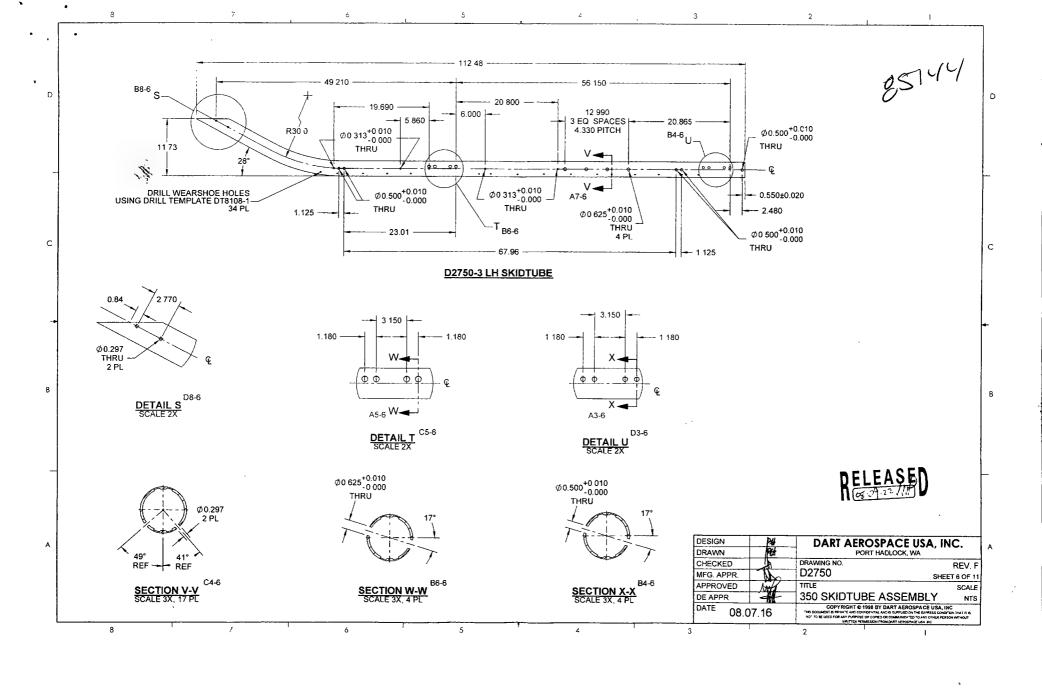
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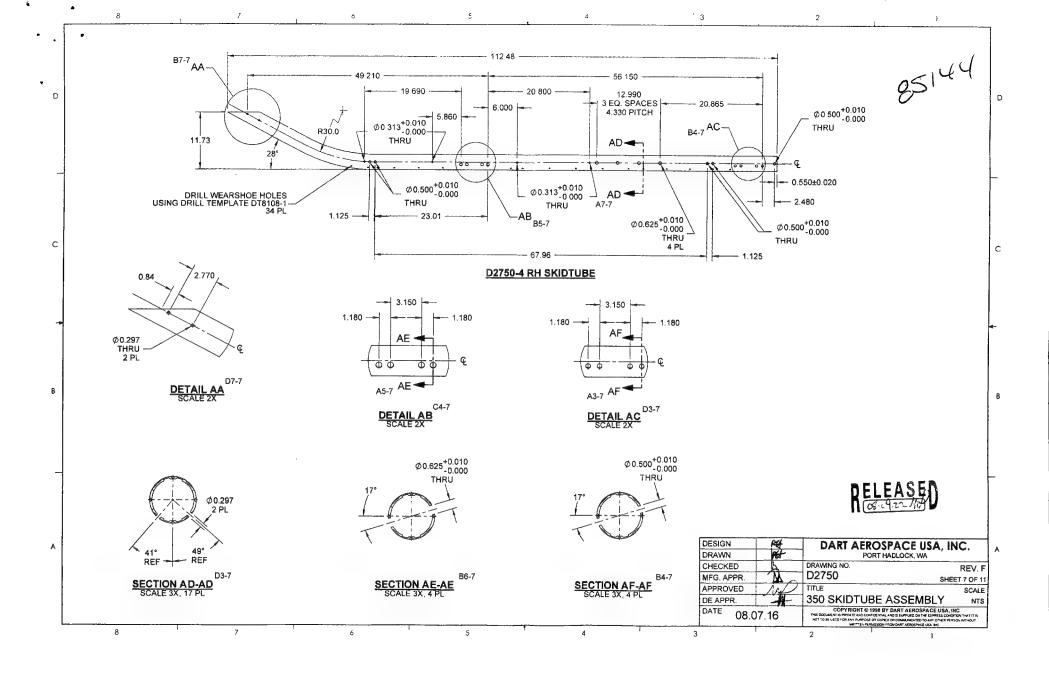
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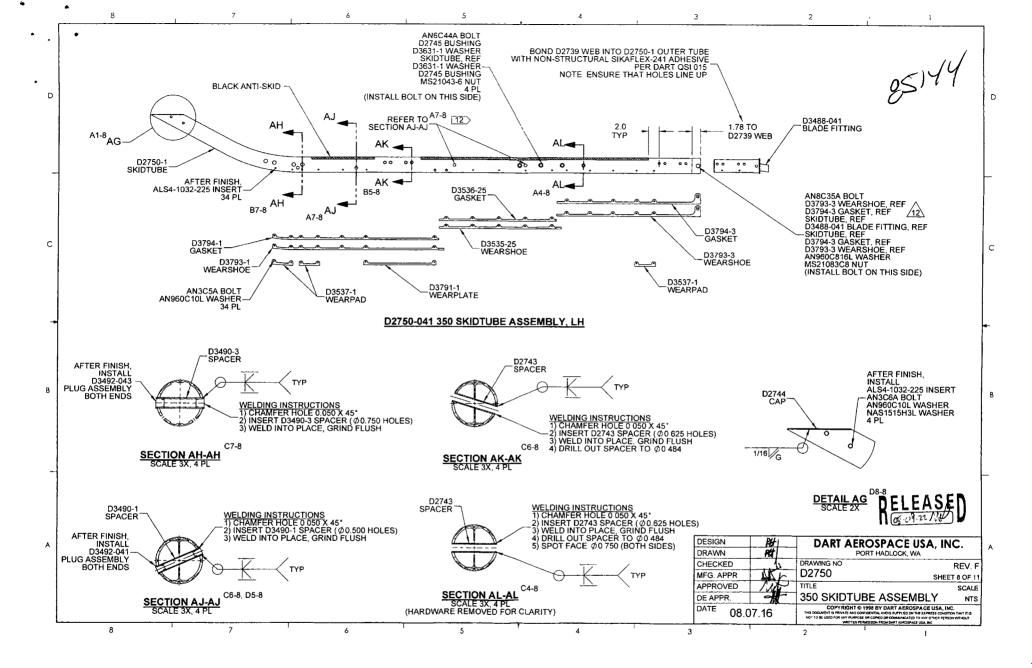
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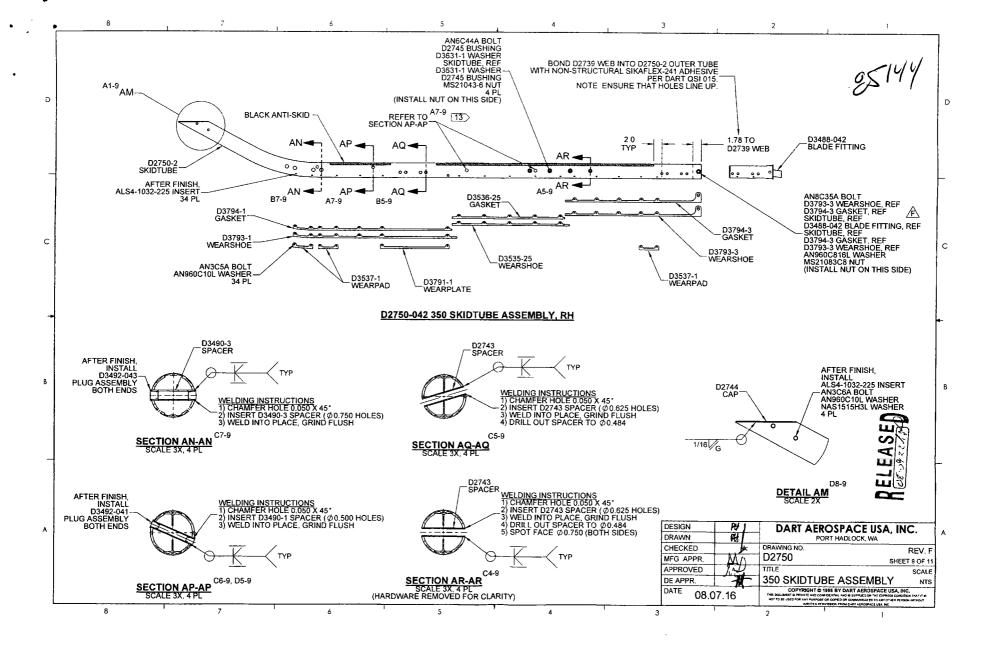
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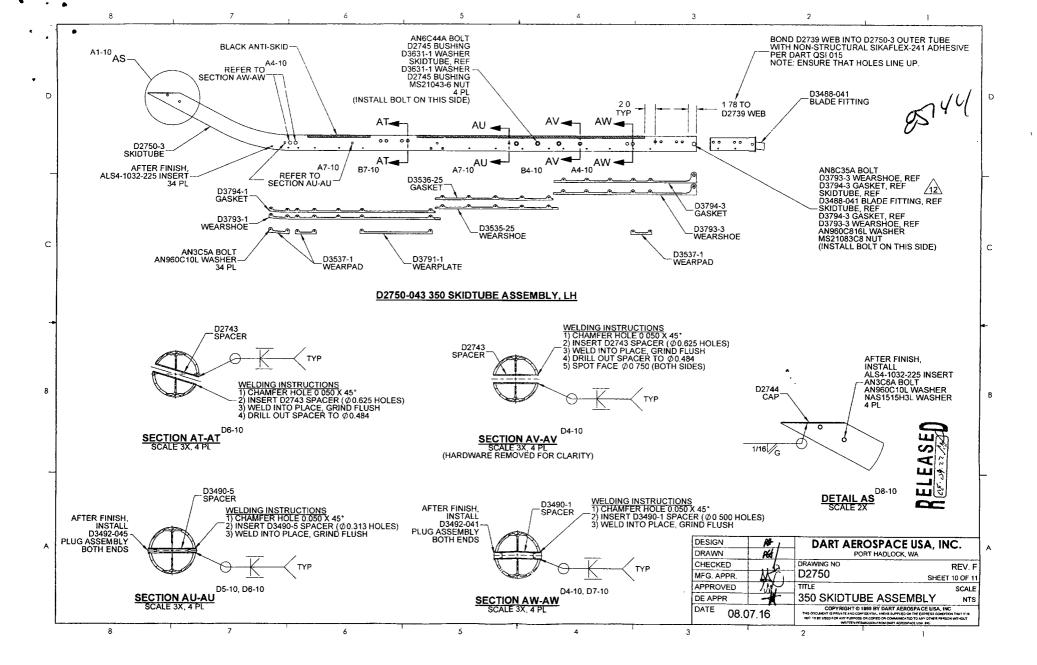
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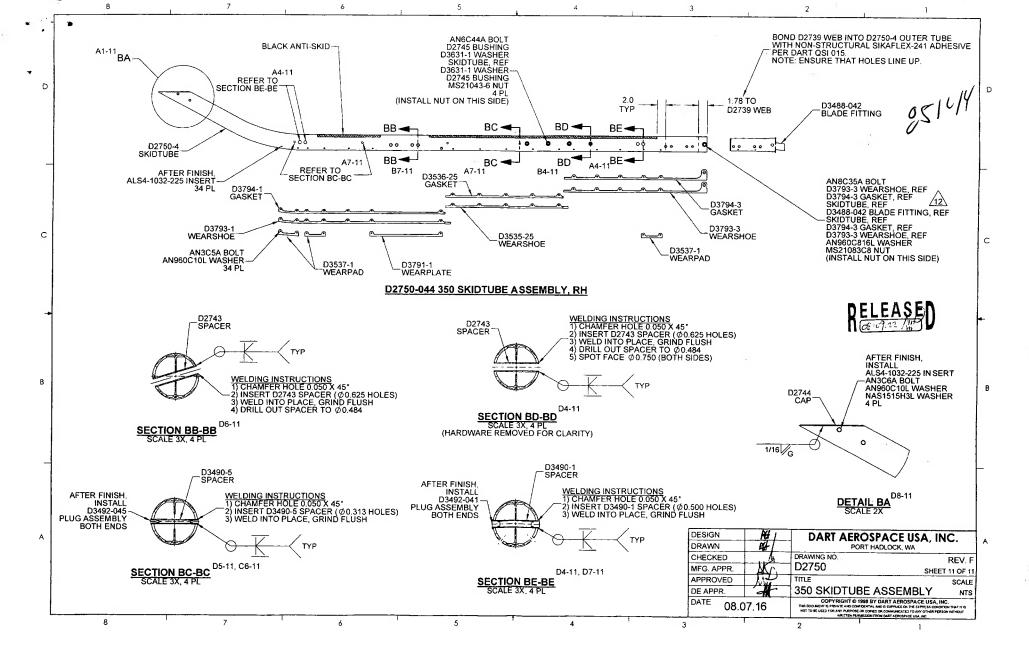
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NO. <u>294</u>

# AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barday Elliott	
Job number: 83800	
Part number: <u> </u>	
Description: Skidfubl	
Welding Process: Tig[ Mig[]	
Base materiel: Alum	
Current: AC[ DC[ ]	

## TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[c] fail[ ] pass[c] fail[ ]		
UNACCEPTABLE	6)		
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]		
Qualifier Amid August Welder Don Law Elliott	Date of Test Coupon		
The above named individual is qualif		·	veld